

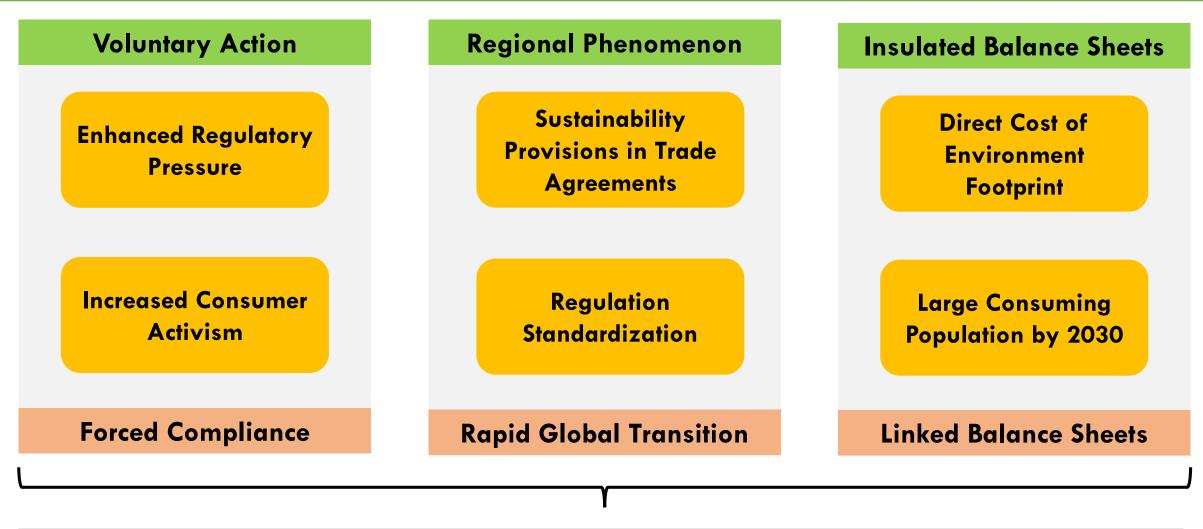
Sustainable Innovation – Versatile Solutions for Current Industry Challenges



Global Sales & Marketing Head – Nonwoven Birla Cellulose (Aditya Birla Group, India)







By 2030, demanding law and regulation with shrink the business operating space

Environmental Friendliness

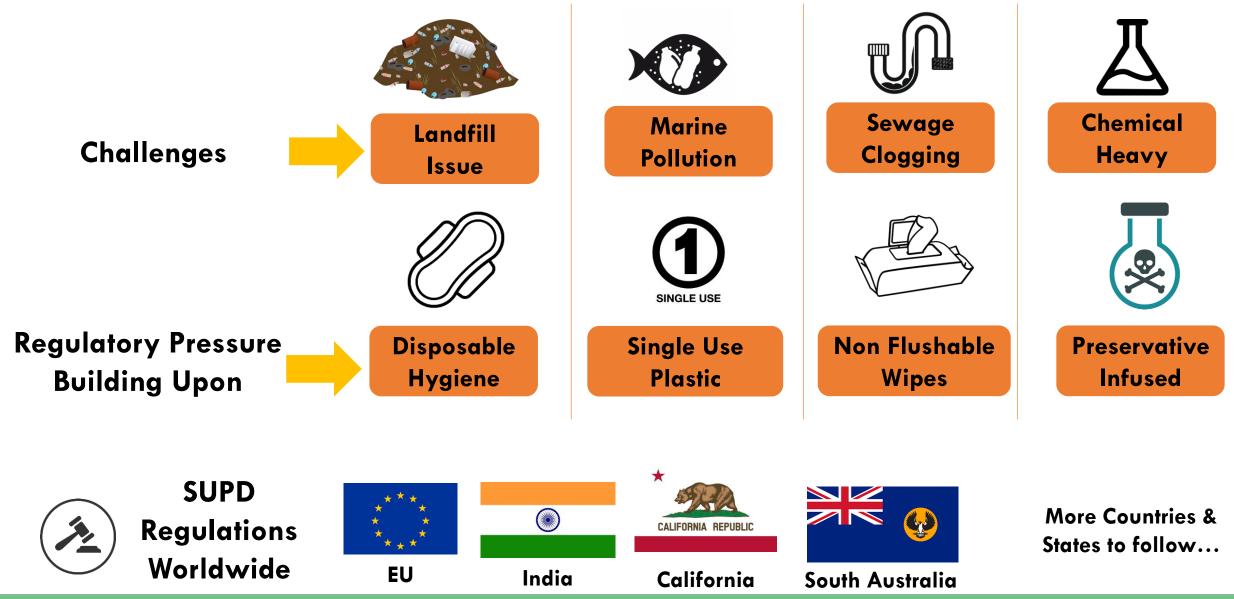


Business Competitiveness



Nonwoven Industry – Current Challenges





Nonwoven industry immediately needs sustainable alternatives

Raw Material is the Key to Sustainability





Natural







Regenerated Cellulose



Fully Biodegradable



Contamination Free



Engineering Possibilities for Multiple Uses

Plastic/ Synthetic







Engineering Possibilities for Multiple Uses

Regenerated Cellulose combines the advantages of Natural & Plastic/Synthetics

Exclusivity to Co-creation

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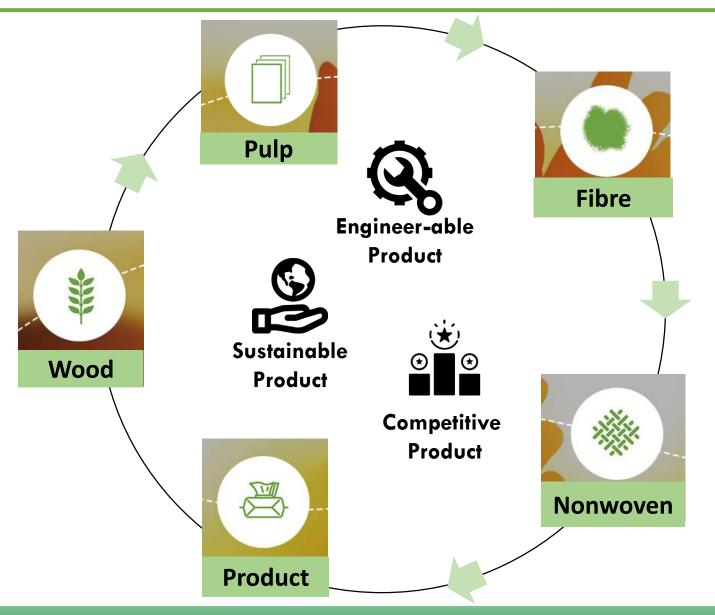
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Paradigm shift in Value Chain Partnerships



Value Chain Partnership



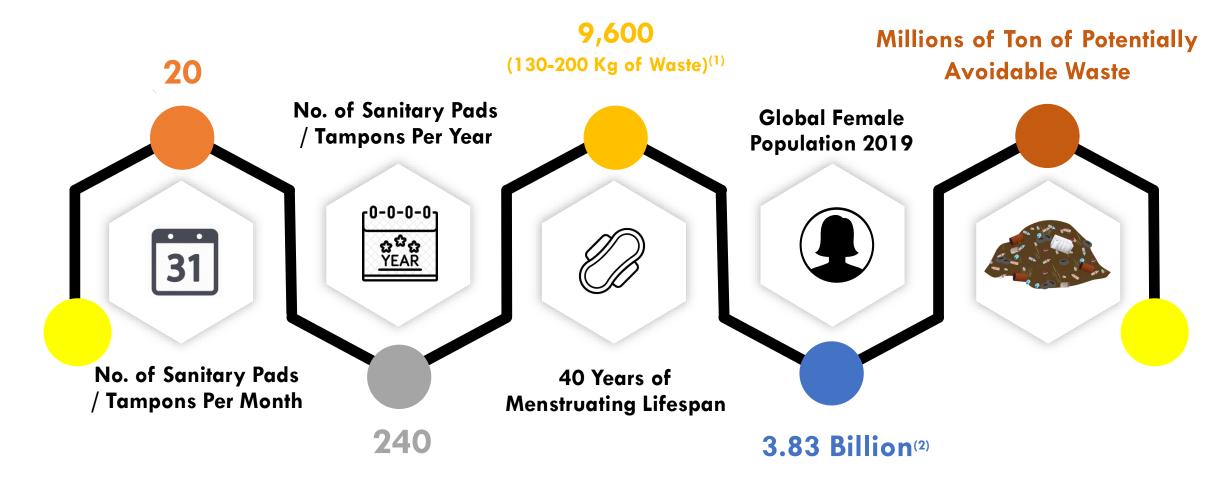


Collaboration is the fastest way to solve world problems

Sustainable Female Hygiene Products

Tackling Landfill Issue





Source: <u>Sustainable Menstruation- The Impact of Menstrual Products on the Environment</u>

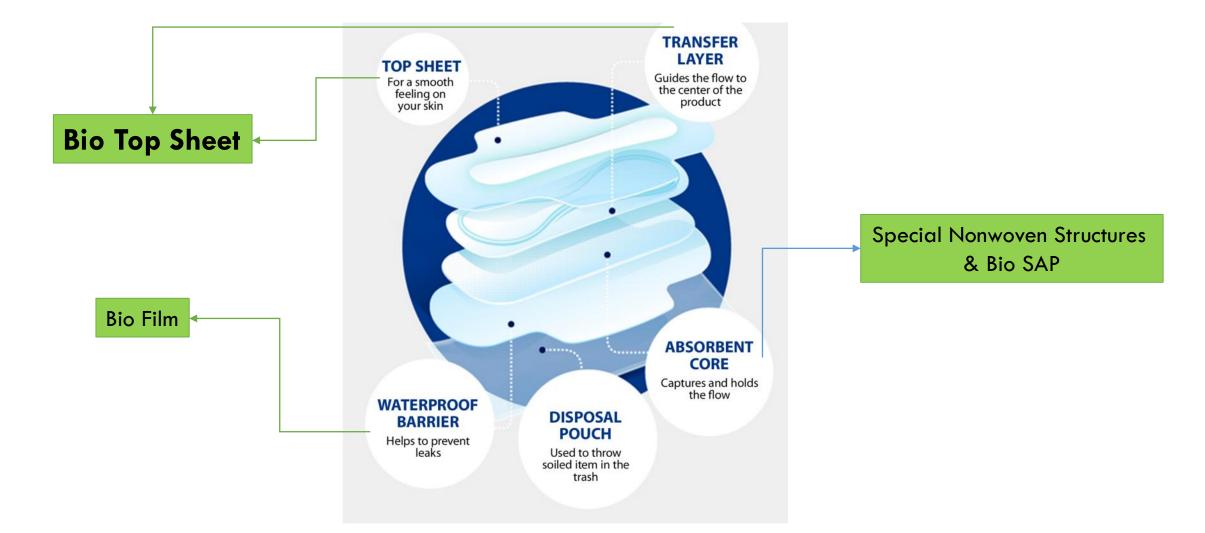
(1) What is the environmental impact of menstrual products?

(2) <u>World Population</u>

With increasing population & penetration of FHP – we've much bigger problem!





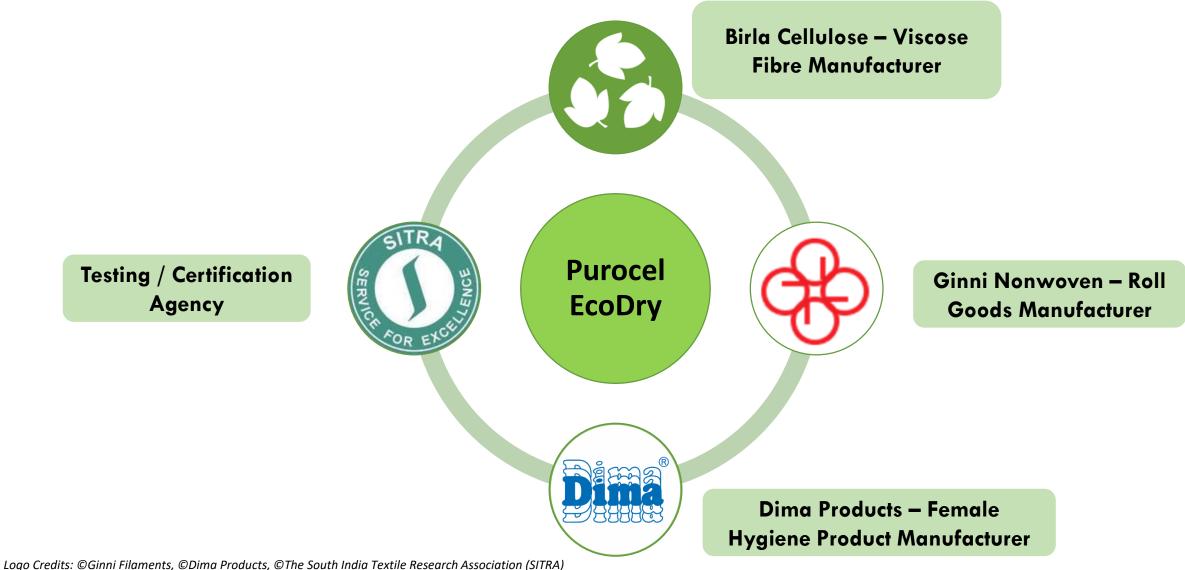


Source: https://eufactcheck.eu/factcheck/uncheckable-conventional-menstrual-pads-are-made-up-of-90-plastic-materials/ & Credits: @Vania

Layer by layer approach to make a fully biodegradable sanitary napkin







We were able to approach the FHP issue in fastest way only due to co-creation



Wetback



Test	Description	Standards
Absorption	It should absorb 30 ml liquid flowed on to the center of sanitary napkin (at the rate of 15 ml per minute and it should not leak through back sheet of napkin.	WSP 070.3 & ISO 9073-8
Repeated Liquid Strike Through Test	It is defined as the time taken for a known volume of liquid to pass through the sanitary napkin till it's back sheet, the test is usually conducted for three consecutive times.	WSP 70.8 & ISO 9073-14
\$ \$\$\$	It examines the ability of sanitary napkin to resist the transport back onto the skin through the top	WSP 70.8 & ISO 9073-14

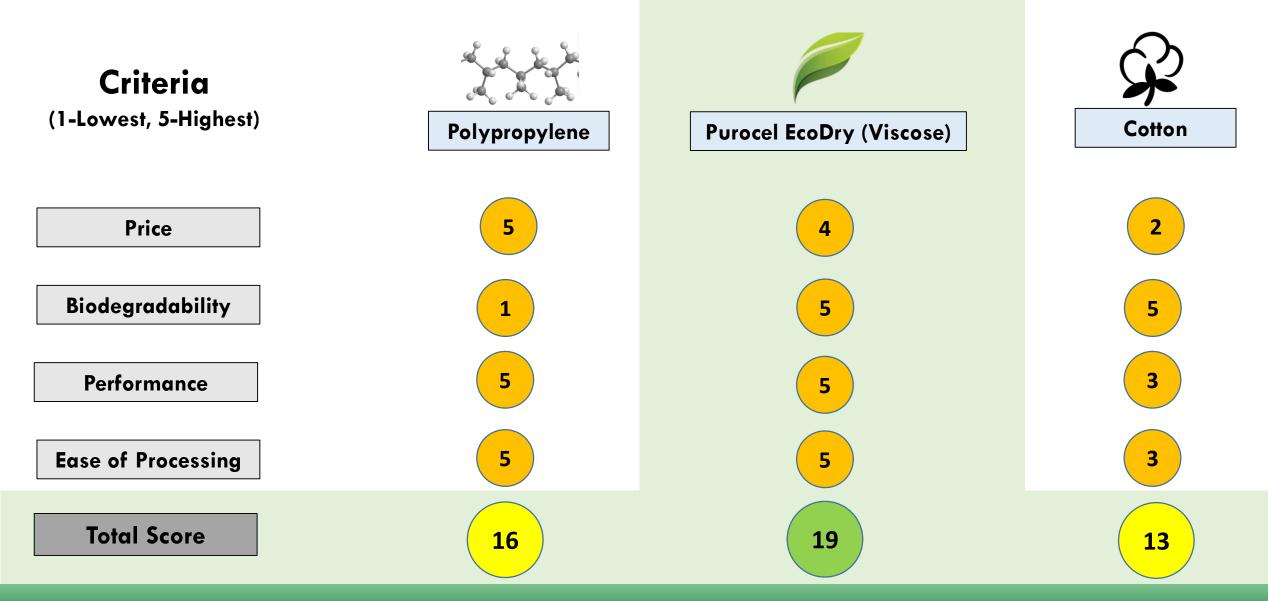
A top sheet meeting above criteria can be used in a sanitary napkin

layer after repeated liquid strike through test



Sanitary Napkin – Top Sheet Overall Comparison





Purocel EcoDry combines the advantages of Cotton & Polypropylene

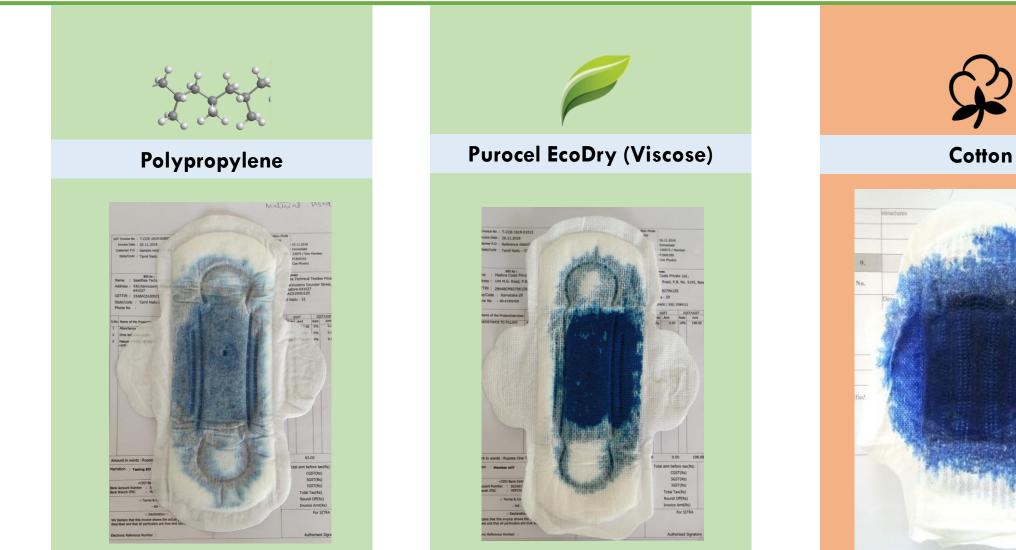


Sanitary Napkin – Product Comparison

(Absorbency Test – 30 ml in 2 Minutes)



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Absorbency tests performed as per WSP 070.3 & ISO 9073-8 standards, this test is like a quality check for sanitary napkins

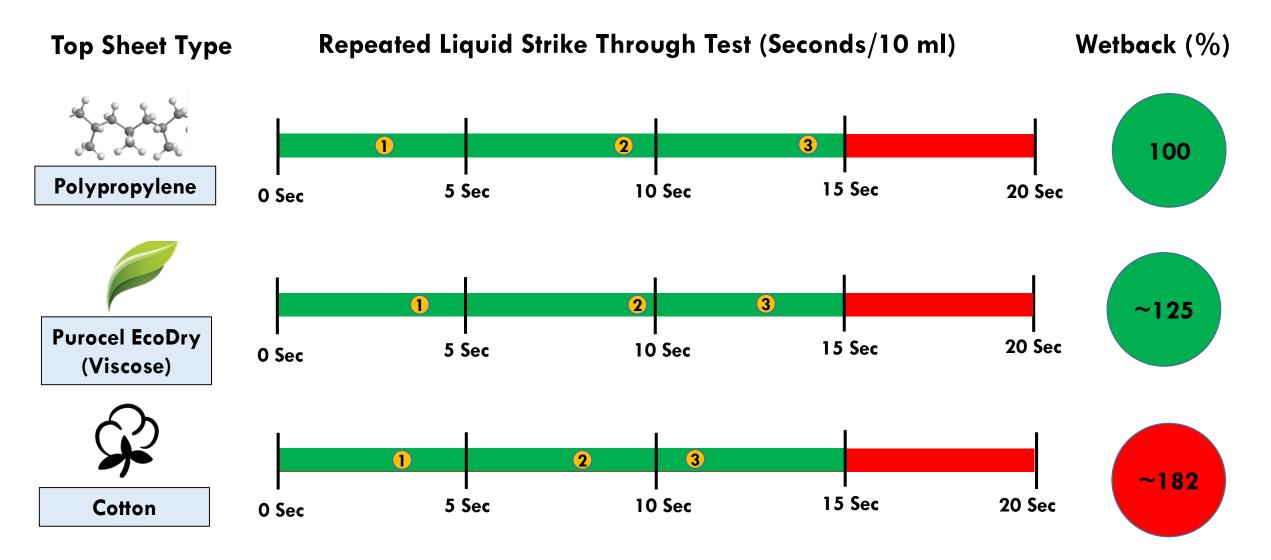
Purocel EcoDry top sheet based sanitary napkins passes the quality check



Sanitary Napkin – Product Comparison

(RLSTT & Wetback)



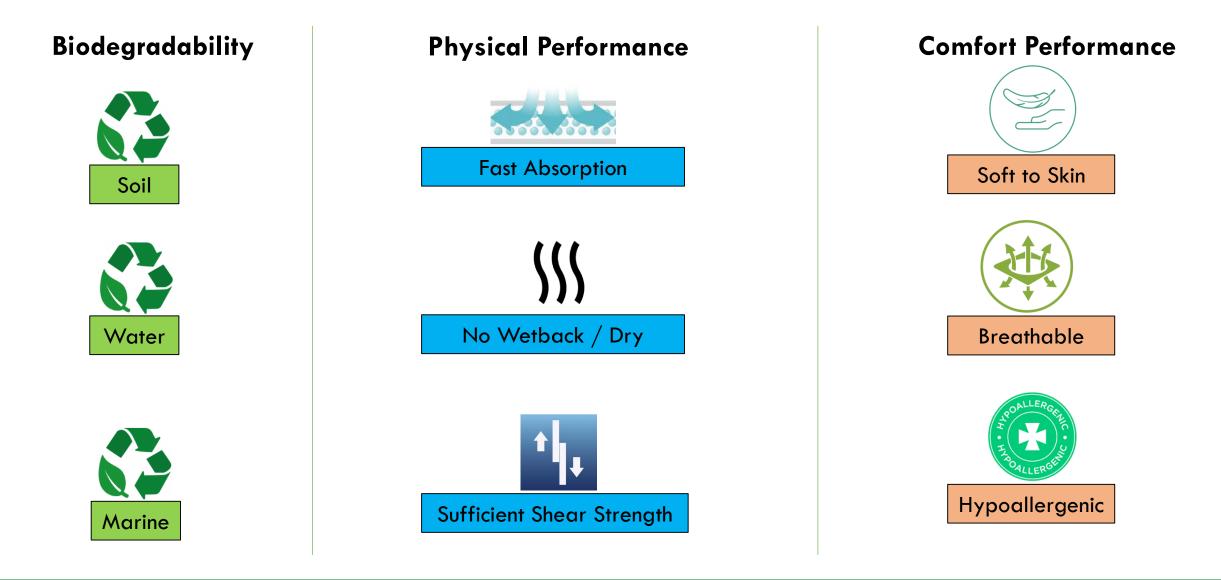


Repeated Liquid Strike Through Test & Wetback Test performed as per WSP 070.3 & ISO 9073-8 standards

Purocel EcoDry top sheet based sanitary napkin checks all the performance boxes!







Purocel EcoDry Top Sheet for Hygiene Products



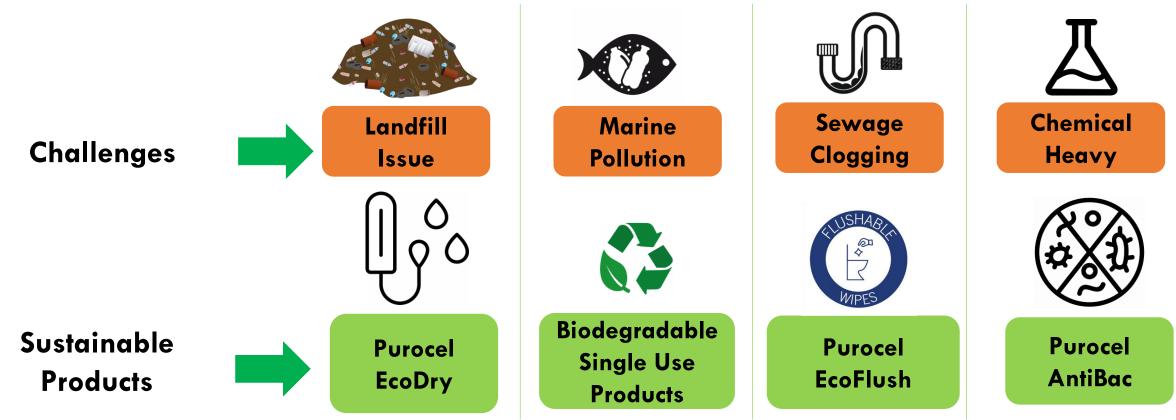
Exploring Sustainable Solutions to Nonwoven Industry Challenges

Tackling other Issues



Constantly Striving towards Sustainable Solutions





Our sustainability quest to solve world problems



Join Us in Solving World Problems





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Our quest to solve world problems continues with your support